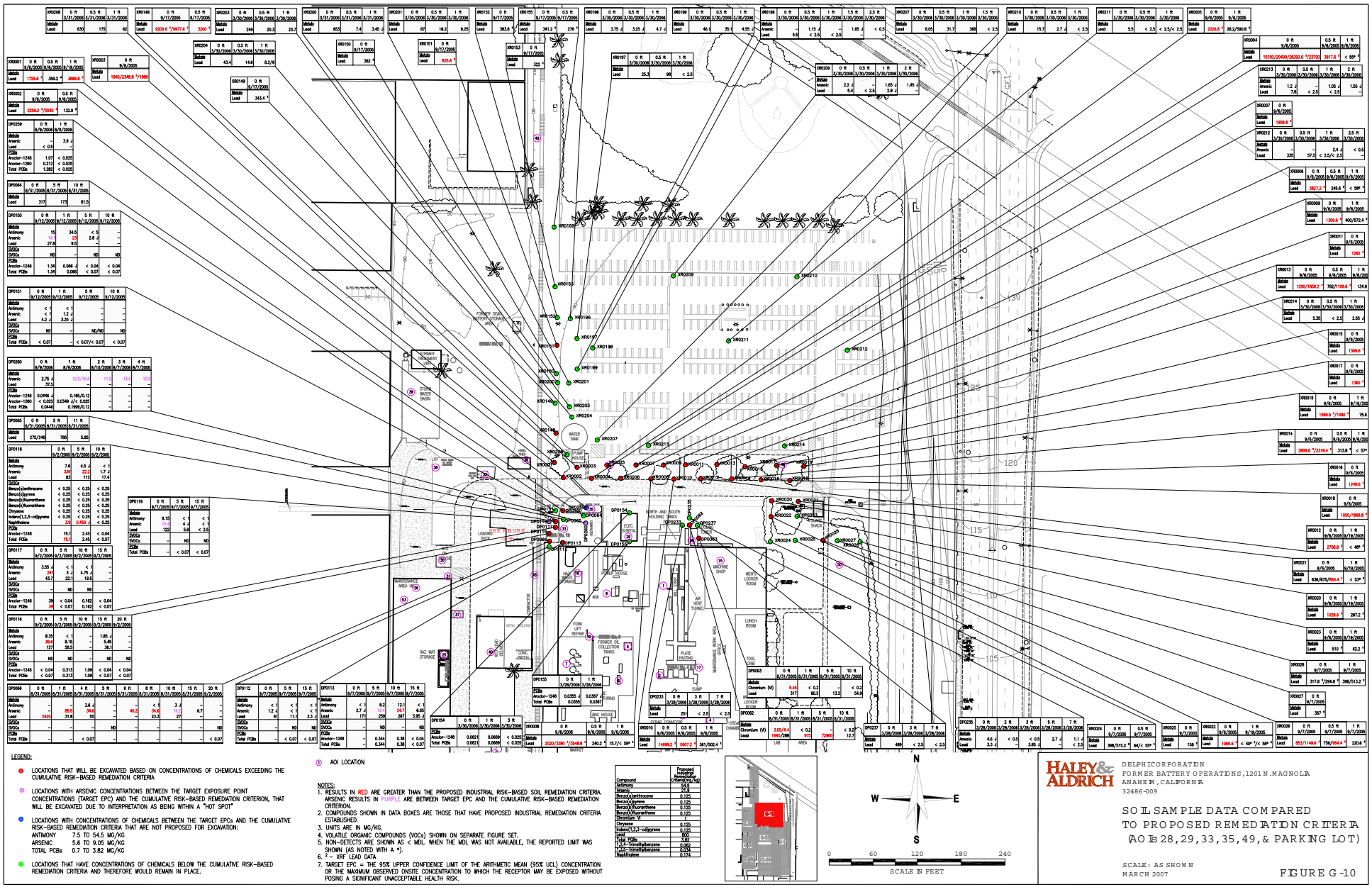


LEGEND:

- LOCATIONS THAT WILL BE EXCAVATED BASED ON CONCENTRATIONS OF CHEMICALS EXCEEDING THE CUMULATIVE RISK-BASED REMEDIATION CRITERIA
- LOCATIONS WITH ARSENIC CONCENTRATIONS BETWEEN THE TARGET EXPOSURE POINT CONCENTRATIONS (TARGET EPC) AND THE CUMULATIVE RISK-BASED REMEDIATION CRITERION, THAT WILL BE EXCAVATED DUE TO INTERPRETATION AS BEING WITHIN A "HOT SPOT"
- LOCATIONS WITH CONCENTRATIONS OF CHEMICALS BETWEEN THE TARGET EPCs AND THE CUMULATIVE RISK-BASED REMEDIATION CRITERIA THAT ARE NOT PROPOSED FOR EXCAVATION:
  ANTIMONY 7.5 TO 54.5 MG/KG
  ARSENIC 5.6 TO 9.05 MG/KG
  TOTAL PCBs 0.7 TO 3.82 MG/KG
- LOCATIONS THAT HAVE CONCENTRATIONS OF CHEMICALS BELOW THE CUMULATIVE RISK-BASED REMEDIATION CRITERIA AND THEREFORE WOULD REMAIN IN PLACE.

① AOI LOCATION

NOTES:

1. RESULTS IN RED ARE GREATER THAN THE PROPOSED INDUSTRIAL RISK-BASED SOIL REMEDIATION CRITERIA. ARSENIC RESULTS IN PURPLE ARE BETWEEN TARGET EPC AND THE CUMULATIVE RISK-BASED REMEDIATION CRITERION.
2. COMPOUNDS SHOWN IN DATA BOXES ARE THOSE THAT HAVE PROPOSED INDUSTRIAL REMEDIATION CRITERIA ESTABLISHED.
3. UNITS ARE IN MG/KG.
4. VOLATILE ORGANIC COMPOUNDS (VOCs) SHOWN ON SEPARATE FIGURE SET.
5. NON-DETECTS ARE SHOWN AS < MDL. WHEN THE MDL WAS NOT AVAILABLE, THE REPORTED LIMIT WAS SHOWN (AS NOTED WITH A *).
6. ^{2} – XRF LEAD DATA
7. TARGET EPC = THE 95% UPPER CONFIDENCE LIMIT OF THE ARITHMETIC MEAN (95% UCL) CONCENTRATION OR THE MAXIMUM OBSERVED ONSITE CONCENTRATION TO WHICH THE RECEPTOR MAY BE EXPOSED WITHOUT POSING A SIGNIFICANT UNACCEPTABLE HEALTH RISK.

Compound	Proposed Industrial Remediation Criteria(mg/kg)
Antimony	54.5
Arsenic	21.3
Benzo(a)anthracene	0.125
Benzo(a)pyrene	0.125
Benzo(b)fluoranthene	0.125
Benzo(k)fluoranthene	0.125
Chromium VI	1
Chrysene	0.125
Indeno(1,2,3-cd)pyrene	0.125
Lead	800
Total PCBs	3.82
1,2,4-trimethylbenzene	0.062
1,3,5-trimethylbenzene	0.034
Naphthalene	0.174

HALEY & ALDRICH

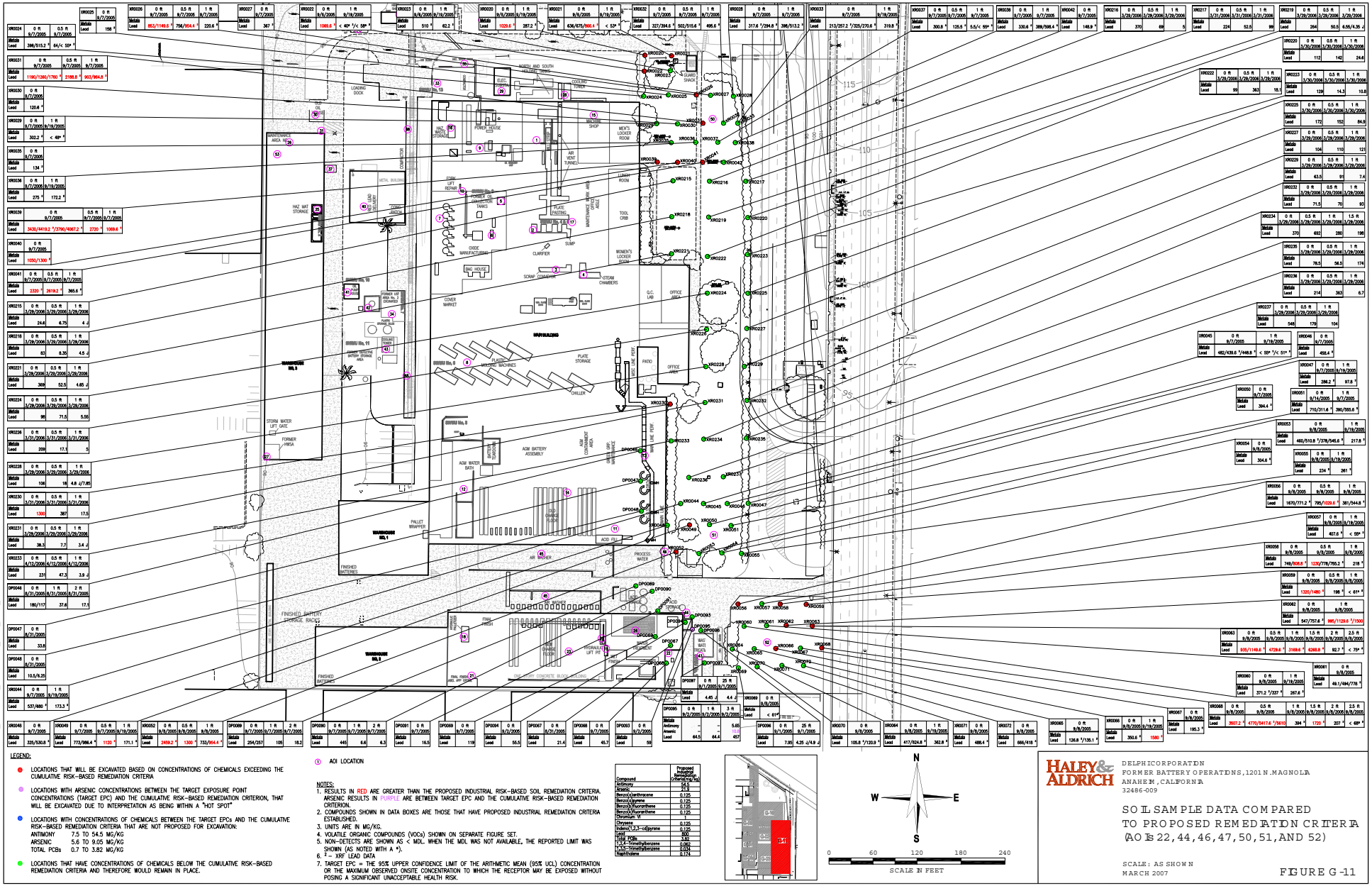
DELPHI CORPORATION
FORMER BATTERY OPERATIONS, 1201 N. MAGNOLIA
ANAHEIM, CALIFORNIA
32486-009

SOIL SAMPLE DATA COMPARED TO PROPOSED REMEDIATION CRITERIA (AOIs 28, 29, 33, 35, 49, & PARKING LOT)

SCALE: AS SHOWN
MARCH 2007

FIGURE G-10

G:\32486\CAD\FEBRUARY 2007\ANAHEIM_DATABOX_FEBRUARY_2007_RISK_ASSESSMENT.DWG



LEGEND:

- LOCATIONS THAT WILL BE EXCAVATED BASED ON CONCENTRATIONS OF CHEMICALS EXCEEDING THE CUMULATIVE RISK-BASED REMEDIATION CRITERIA
- LOCATIONS WITH ARSENIC CONCENTRATIONS BETWEEN THE TARGET EXPOSURE POINT CONCENTRATIONS (TARGET EPC) AND THE CUMULATIVE RISK-BASED REMEDIATION CRITERION, THAT WILL BE EXCAVATED DUE TO INTERPRETATION AS BEING WITHIN A "HOT SPOT"
- LOCATIONS WITH CONCENTRATIONS OF CHEMICALS BETWEEN THE TARGET EPCs AND THE CUMULATIVE RISK-BASED REMEDIATION CRITERIA THAT ARE NOT PROPOSED FOR EXCAVATION:
  - ANTIMONY 7.5 TO 54.5 MG/KG
  - ARSENIC 5.6 TO 9.05 MG/KG
  - TOTAL PCBs 0.7 TO 3.82 MG/KG
- LOCATIONS THAT HAVE CONCENTRATIONS OF CHEMICALS BELOW THE CUMULATIVE RISK-BASED REMEDIATION CRITERIA AND THEREFORE WOULD REMAIN IN PLACE.

① AOI LOCATION

NOTES:

1. RESULTS IN RED ARE GREATER THAN THE PROPOSED INDUSTRIAL RISK-BASED SOIL REMEDIATION CRITERIA. ARSENIC RESULTS IN PURPLE ARE BETWEEN TARGET EPC AND THE CUMULATIVE RISK-BASED REMEDIATION CRITERION.
2. COMPOUNDS SHOWN IN DATA BOXES ARE THOSE THAT HAVE PROPOSED INDUSTRIAL REMEDIATION CRITERIA ESTABLISHED.
3. UNITS ARE IN MG/KG.
4. VOLATILE ORGANIC COMPOUNDS (VOCs) SHOWN ON SEPARATE FIGURE SET.
5. NON-DETECTS ARE SHOWN AS < MDL. WHEN THE MDL WAS NOT AVAILABLE, THE REPORTED LIMIT WAS SHOWN (AS NOTED WITH A *).
6. [2] = XRF LEAD DATA
7. TARGET EPC = THE 95% UPPER CONFIDENCE LIMIT OF THE ARITHMETIC MEAN (95% UCL) CONCENTRATION OR THE MAXIMUM OBSERVED ONSITE CONCENTRATION TO WHICH THE RECEPTOR MAY BE EXPOSED WITHOUT POSING A SIGNIFICANT UNACCEPTABLE HEALTH RISK.

Compound	Proposed Industrial Criteria (mg/kg)
Antimony	313
Arsenic	2.9
Benzo(a)anthracene	0.125
Benzo(a)pyrene	0.125
Benzo(b)fluoranthene	0.125
Benzo(k)fluoranthene	0.125
Chromium VI	6
Chrysene	0.125
Indeno(1,2,3-cd)pyrene	0.125
Lead	800
Total PCBs	3.82
1,2,4-trimethylbenzene	0.062
1,3,5-trimethylbenzene	0.062
Naphthalene	0.174

HALEY & ALDRICH

DELPHI CORPORATION
FORMER BATTERY OPERATIONS, 1201 N. MAGNOLIA
ANAHEIM, CALIFORNIA
32486-009

SOIL SAMPLE DATA COMPARED TO PROPOSED REMEDIATION CRITERIA (AOIs 22, 44, 46, 47, 50, 51, AND 52)

SCALE: AS SHOWN
MARCH 2007

FIGURE G-11

G:\32486\CAD\FEBRUARY 2007\ANAHEIM_DATABOX_FEBRUARY_2007_RSK_ASSESSMENT.DWG

TABLE 1
DETECTED CHEMICALS AND CORRESPONDING MEDIA
FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA
32486-001

Chemicals	Shallow Soil (0-10 feet bgs)	Deep Soil (deeper than 10 feet bgs)	Shallow Soil Gas (approximately 5 feet bgs)	Deep Soil Gas (approximately 15 feet bgs)	Onsite Groundwater
1,1,1-Trichloroethane	X	X	X	X	X
1,1,2-Trichloroethane	X	X	X	X	X
1,1-Dichloroethane	X	X	X	X	X
1,1-Dichloroethene	X	X	X	X	X
1,1-Dichloropropene			X	X	
1,2,3-Trichlorobenzene	X			X	
1,2,4-Trichlorobenzene	X				
1,2,4-Trimethylbenzene	X		X	X	
1,2-Dichloroethane	X	X	X	X	X
1,2-Dichloropropane			X	X	
1,2-Dichlorotetrafluoroethane				X	
1,3,5-Trimethylbenzene	X		X	X	
1,3-Dichloropropane			X		
1,4-Dichlorobenzene				X	
2,2-Dichloropropane			X	X	
2,4-Dimethylphenol	X				
2-Butanone	X		X	X	
2-Hexanone				X	
2-Methylnaphthalene	X				
2-Methylphenol	X				
4-Ethyltoluene			X	X	
4-Methylphenol	X				
4-Methyl-2-pentanone			X	X	
Acenaphthene	X				
Acenaphthylene	X				
Acetone	X		X	X	X
Anthracene	X				
Antimony	X	X			
Aroclor-1016	X				
Aroclor-1248	X				
Aroclor-1254	X				
Aroclor-1260	X				
Arsenic	X	X			X
Barium	X	X			X
Benzene	X		X	X	
Benzo(a)anthracene	X				
Benzo(a)pyrene	X				
Benzo(b)fluoranthene	X				
Benzo(g,h,i)perylene	X				
Benzo(k)fluoranthene	X				
Benzoic Acid	X				
Beryllium	X	X			
bis(2-Ethylhexyl)phthalate	X				
Bromodichloromethane			X		X
Cadmium	X				
Carbon disulfide			X	X	
Carbon tetrachloride			X		
Chlorobenzene			X		
Chloroethane			X	X	
Chloroform			X	X	X
Chloromethane			X		
Chromium	X	X			
Chromium (VI)	X				
Chrysene	X				

TABLE 1
DETECTED CHEMICALS AND CORRESPONDING MEDIA
FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA
32486-001

Chemicals	Shallow Soil (0-10 feet bgs)	Deep Soil (deeper than 10 feet bgs)	Shallow Soil Gas (approximately 5 feet bgs)	Deep Soil Gas (approximately 15 feet bgs)	Onsite Groundwater
Cobalt	X	X			
Copper	X	X			X
Cymene	X				
Dibenzofuran	X				
Dibromochloromethane			X		X
Dibromomethane	X				
Dichlorodifluoromethane (CFC-12)			X	X	
Di-n-butylphthalate	X				
Di-n-octylphthalate	X				
Ethylbenzene	X		X	X	
Fluoranthene	X				
Fluorene	X				
Indeno(1,2,3-cd)pyrene	X				
Isopropylbenzene	X				
Lead	X	X			X
m,p-Xylenes	X				
Mercury	X				
Methyl tert-butyl ether (MTBE)			X		
Methylene chloride			X		
Molybdenum	X				X
Naphthalene	X				
Nickel	X	X			X
n-Propylbenzene	X				
o-Xylene	X				
Pentachlorophenol	X				
pH	X				
Phenanthrene	X				
Phenol	X				
Pyrene	X				
sec-Butylbenzene	X				
Selenium					X
Styrene			X	X	
tert-Butylbenzene	X				
Tetrachloroethene	X	X	X	X	X
Toluene	X	X	X	X	
trans-1,2-Dichloroethene			X		
Trichloroethene			X	X	X
Trichlorofluoromethane (CFC-11)			X	X	
Trifluorotrichloroethane (Freon 113)			X	X	
Vanadium	X	X			X
Vinyl chloride			X	X	
Xylenes	X		X	X	
Zinc	X	X			X

bgs = below ground surface
X = chemical detected above laboratory reporting limits

TABLE II
SUMMARY OF BACKGROUND METALS CONCENTRATIONS OBTAINED FROM THE LITERATURE AND SITE METALS COMPARISON
FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA
32486-001

Metals	Source: USGS 1984 Western U.S.				Source: Kearney Foundation 1996 California (50 Agricultural Soils Throughout California)				Source: Cal-EPA 1991 from Bradford et al, 1967 (50 Agricultural Soils Throughout California)				Source: Cal-EPA 1991 Southern California (69 Pristine Desert Soils and Sediments from the San Gorgonio Pass Area)				Source: Cal-EPA 1991 Southern California (69 Pristine Desert Soils and Sediments from the Manibira Valley Area)				Source: Cal-EPA 1992 Southern California (23 Agricultural and Urban Sites in the Eastern and Southern Los Angeles Area)				Background Concentration	Maximum Detected Concentration in Onsite Soil Samples
	Minimum	Geometric Mean	Arithmetic Mean	Maximum	Minimum	Geometric Mean	Arithmetic Mean	Maximum	Minimum	Geometric Mean	Arithmetic Mean	Maximum	Minimum	Geometric Mean	Arithmetic Mean	Maximum	Minimum	Geometric Mean	Arithmetic Mean	Maximum	Minimum	Geometric Mean	Arithmetic Mean	Maximum	Maximum Reported	Maximum
Antimony (Sb)	< 1	0.47	0.62	2.6	0.15	0.50	0.60	1.95	---	---	---	---	---	---	---	---	---	---	---	---	0.12	---	---	1.90	2.6	8,900
Arsenic (As)	< 0.10	5.5	7.0	97	0.6	2.8	3.5	11.0	1.4	6.2	7.8	20.3	2.0	---	4.6	9.9	9.9	---	16.4	31.2	1.8	---	---	15.2	97	2,000
Barium (Ba)	70	580	670	5,000	133	468	509	1,400	1.46	424	463	974	151	---	660	911	288	---	541	692	23	---	---	560	5,000	407
Beryllium (Be)	< 1	0.68	0.97	15	0.25	1.14	1.28	2.70	---	---	---	---	---	---	---	---	---	---	---	---	< 0.1	---	---	1.2	15	<1.3
Cadmium (Cd)	---	---	---	---	0.05	0.26	0.36	1.70	0.04	0.15	0.19	1.29	0.07	---	0.19	0.42	0.04	---	0.20	0.39	0.05	---	---	1.45	1.7	9.5
Chromium (Cr)	3	41	56	2,000	23	76	122	1,579	23	76	122	1,579	4	---	16	113	11	---	24	39	5.8	---	---	32.6	2,000	122
Cobalt (Co)	< 3	7.1	9.0	50	2.7	12.6	14.9	46.9	2.7	12.6	14.8	46.9	1.9	---	5.0	8.7	ND	---	9.0	16.9	1.6	---	---	23.2	50	51
Copper (Cu)	2	21	27	300	9.1	24.0	28.7	96.4	9.9	33	42	164.6	6.0	---	14	258	13.1	---	24	35.4	3.8	---	---	54.0	300	244
Lead (Pb)	< 10	17	20	700	12.4	21.7	23.9	97.1	8.5	13.8	14.5	28.7	7.2	---	17.3	54.5	10.4	---	16.9	20.9	2.5	---	---	189.4	700	1,729,534
Mercury (Hg)	< 0.01	0.046	0.065	4.6	0.10	0.20	0.26	0.90	---	---	---	---	---	---	---	---	---	---	---	---	0.10	---	---	0.60	4.6	4.25
Molybdenum (Mo)	< 3	0.85	1.1	7	0.1	0.9	1.3	9.6	---	---	---	---	---	---	---	---	---	---	---	---	0.15	---	---	1.40	9.60	13.1
Nickel (Ni)	< 5	15	19	700	9	36	57	509	9	36	57	509	5.4	---	11	17.3	9.9	---	18	25.1	3.5	---	---	28.2	700	88.5
Selenium (Se)	< 0.1	0.23	0.34	4.3	0.015	0.028	0.058	0.43	< 0.1	0.26	0.36	1.30	---	---	---	---	---	---	---	---	---	---	---	---	4.3	<1
Silver (Ag)	---	---	---	---	0.10	0.41	0.80	8.30	---	---	---	---	---	---	---	---	---	---	---	---	0.07	---	---	0.75	8.3	<2.5
Thallium (Th)	2.4	9.1	9.8	31	5.3	13.8	15.7	36.2	---	---	---	---	---	---	---	---	---	---	---	---	0.05	---	---	35.0	36.2	<1
Vanadium (V)	7	70	88	500	39	101	112	288	39	102	112	288	45	---	78	188	40	---	68	98	18	---	---	84.8	500	44.2
Zinc (Zn)	10	55	65	2,100	88	145	149	236	13	123	139	354	ND	---	30	66	21	---	45	109	10.3	---	---	247	2,100	1060

Concentrations in units of milligrams per kilogram (mg/kg)
--- = Not Evaluated
NA = Not applicable
Bold Italics - Maximum detected concentration in onsite soil samples exceeds listed maximum reported background concentration
Background Sources:
USGS 1984: Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270 by H.T. Shackette and J.G. Boerngen (Western U.S. Data)
Kearney Foundation 1996: Background Concentrations of Trace and Major Elements in California Soils, Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California
Cal-EPA 1991: Background Levels of Trace Elements in Southern California Soils, Draft Annual Report, California Environmental Protection Agency, Contract No. 89-T0081 by University of California, Riverside, California, April 1991
Bradford, G.R., R.J. Arkley, P.F. Pratt, and F.L. Blair. 1967. Total Content of Nine Mineral Elements in Fifty Selected Benchmark Soils Profiles of California. Hilgardia 38:541-556.
Cal-EPA 1992: Background Levels of Trace Elements in Southern California Soils, Draft Annual Report, California Environmental Protection Agency, Contract No. 89-T0081 by University of California, Riverside, California, June 1992

TABLE III
SUMMARY OF EXPOSURE POINT CONCENTRATIONS (EPCs)
FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA
32486-001

	SOIL CONCENTRATION				VOCs IN AMBIENT AIR CONCENTRATION	PARTICULATES IN AMBIENT AIR (CONSTRUCTION)	PARTICULATES IN AMBIENT AIR (POST DEVELOPMENT)	SOIL GAS AND ESTIMATED INDOOR AIR CONCENTRATION							
Chemical Detected in Soil	Maximum Detected Concentration in Shallow Soil (mg/kg)	Shallow Soil 95% UCL Concentration (mg/kg)	Shallow Soil EPC (mg/kg)	EPC Selection (Maximum or 95% UCL)	EPC of VOCs in Ambient Air (mg/m^3)	Particulates of Non_VOCs in Ambient air during Contruction (mg/m3)	Particulates of Non_VOCs in Ambient Air Post Development (mg/m3)	Soil Gas (5-foot depth) (ug/m^3)	EPC of Soil Gas (5-foot depth) VOCs in Indoor Air (mg/m^3)	Soil Gas (10-foot depth) (ug/m^3)	EPC of Soil Gas (10-foot depth) VOCs in Indoor Air (mg/m^3)	Soil Gas (15-foot depth) (ug/m^3)	EPC of Soil Gas (15-foot depth) VOCs in Indoor Air (mg/m^3)	Soil Gas (20-foot depth) (ug/m^3)	EPC of Soil Gas (20-foot depth) VOCs in Indoor Air (mg/m^3)
1,1,1-Trichloroethane	3.13	nc	3.13	Maximum	6.10E-02			300,000	6.88E-02			1.04E+06	7.66E-03	1.05E+06	7.67E-03
1,1,2-Trichloroethane	0.0269	nc	0.0269	Maximum	1.70E-04			347	7.97E-05			5810	5.50E-05	10,500	9.84E-05
1,1-Dichloroethane	0.336	nc	0.336	Maximum	5.90E-03			54,700	1.21E-02	23,800	2.91E-03	143000	1.05E-03	231,000	1.68E-03
1,1-Dichloroethene	0.251	nc	0.251	Maximum	7.60E-03			520,000	1.32E-01	4.30E+04	6.18E-03	1.03E+06	8.69E-03	1.11E+06	9.29E-03
1,1-Dichloropropene								130	2.53E-05						
1,2,3-Trichlorobenzene	0.0188	nc	0.0188	Maximum	1.90E-05					190	1.03E-05	60	2.50E-07		
1,2,4-Trichlorobenzene	0.0622	nc	0.0622	Maximum	6.20E-05										
1,2,4-Trimethylbenzene	2.48	nc	2.48	Maximum	5.40E-03			381	7.25E-05			91.6	5.45E-07	55	3.24E-07
1,2-Dichloroethane	0.0187	nc	0.0187	Maximum	2.00E-04			93	2.60E-05			340	4.06E-06	1,120	1.32E-05
1,2-Dichloropropane								6,130	1.41E-03			78400	6.26E-04		
1,2-Dichlorotetrafluoroethane (Freon 114)												9.9	7.18E-08	651	4.68E-06
1,3,5-Trimethylbenzene	1.36	nc	1.36	Maximum	7.20E-03			174	3.29E-05			25.2	1.50E-07	20.9	1.23E-07
1,3-Dichloropropane								120	2.76E-05						
1,4-Dichlorobenzene												4.7	3.38E-08		
2,2-Dichloropropane								64	1.47E-05						
2,4-Dimethylphenol	4.3	nc	4.3	Maximum		4.30E-06	3.27E-09								
2-Butanone	0.0811	nc	0.0811	Maximum	1.70E-04			44.1	1.05E-05			44.6	1.71E-06		
2-Hexanone												39.7	7.52E-04		
2-Methylnaphthalene	8.25	nc	8.25	Maximum		8.25E-06	6.27E-09								
2-Methylphenol	0.3	nc	0.3	Maximum		3.00E-07	2.28E-10								
4-Ethyltoluene						0.00E+00	0.00E+00	115	2.85E-05			33.2	2.83E-07	21.5	1.82E-07
4-Methyl-2-pentanone						0.00E+00	0.00E+00	52.8	1.18E-05			255	4.83E-06	17.3	3.20E-07
4-Methylphenol	11.2	nc	11.2	Maximum		1.12E-05	8.51E-09								
Acenaphthene	13	nc	13	Maximum		1.30E-05	9.88E-09								
Acenaphthylene	3.78	nc	3.78	Maximum		3.78E-06	2.87E-09								
Acetone	1.34	nc	1.34	Maximum	4.30E-03			385	1.22E-04			575	3.48E-05		
Anthracene	24.3	nc	24.3	Maximum		2.43E-05	1.85E-08								
Antimony	8,900	531	531	95% UCL		5.31E-04	4.03E-07								
Total PCBs	27,800	892	892	95% UCL		8.92E-04	6.78E-07								
Arsenic	2220	75	75	95% UCL		7.50E-05	5.70E-08								
Barium	407	nc	407	Maximum		4.07E-04	3.09E-07								
Benzene	0.0084	nc	0.0084	Maximum	1.30E-04			340	8.50E-05	410	5.79E-05	290	2.49E-06	250	2.12E-06
Benzo(a)anthracene	21.5	1.40	1.40	95% UCL		1.40E-06	1.06E-09								
Benzo(a)pyrene	24.1	1.50	1.50	95% UCL		1.50E-06	1.14E-09								
Benzo(b)fluoranthene	29.8	2.03	2.03	95% UCL		2.03E-06	1.54E-09								
Benzo(g,h,i)perylene	36.6	nc	36.6	Maximum		3.66E-05	2.78E-08								
Benzo(k)fluoranthene	15.3	1.02	1.02	95% UCL		1.02E-06	7.75E-10								
Benzoic Acid	2.56	nc	2.56	Maximum		2.56E-06	1.95E-09								
Beryllium	1.2	nc	1.2	Maximum		1.20E-06	9.12E-10								
bis(2-Ethylhexyl)phthalate	19.8	nc	19.8	Maximum		1.98E-05	1.50E-08								
Bromodichloromethane								110	1.17E-05						
Cadmium	9.5	0.92	0.92	95% UCL		9.20E-07	6.99E-10								
Carbon disulfide								161	4.51E-05			7.8	7.57E-08		
Carbon tetrachloride								200	4.59E-05						
Chromium	122	nc	122	Maximum		1.22E-04	9.27E-08								
Chromium (VI)	5.45	7.95	5.45	95% UCL		5.45E-06	4.14E-09								
Chlorobenzene								68	1.49E-05						
Chloroethane								180	8.48E-05			141	3.51E-06	40.4	9.98E-07
Chloroform								1,720	4.81E-04	23	3.72E-06	2,430	2.49E-05	3,100	3.15E-05
Chloromethane								150	4.74E-05						
Chrysene	49.7	2.92	2.92	95% UCL		2.92E-06	2.22E-09								
Cobalt	51	nc	51	Maximum		5.10E-05	3.88E-08								
Copper	244	nc	244	Maximum		2.44E-04	1.85E-07								
Cymene	0.75	nc	0.75	Maximum	8.90E-03										
Dibenzofuran	3.25	nc	3.25	Maximum		3.25E-06	2.47E-09								
Dibromochloromethane								94	6.89E-06						
Dibromomethane	0.0308	nc	0.0308	Maximum	1.20E-04										
Dichlorodifluoromethane (CFC-12)								330	6.73E-05			290	1.80E-06		
Di-n-butylphthalate	0.625	nc	0.625	Maximum		6.25E-07	4.75E-10								
Di-n-octylphthalate	20.6	nc	20.6	Maximum		2.06E-05	1.57E-08								
Ethylbenzene	0.0506	nc	0.0506	Maximum	4.00E-04			1,070	2.39E-04	640	7.90E-05	520	3.75E-06	220	1.57E-06
Fluoranthene	151	nc	151	Maximum		1.51E-04	1.15E-07								
Fluorene	12.6	nc	12.6	Maximum		1.26E-05	9.57E-09								
Indeno(1,2,3-cd)pyrene	26.3	1.57	1.57	95% UCL		1.57E-06	1.19E-09								
Isopropylbenzene	0.0848	nc	0.0848	Maximum	1.00E-03										
Lead	1,729,534	14,740	14,740	95% UCL		1.47E-02	1.12E-05								
m,p-Xylenes	0.174	nc	0.174	Maximum		1.74E-07	1.32E-10								
Mercury	4.25	nc	4.25	Maximum		4.25E-06	3.23E-09								
Methyl tert butyl ether (MTBE)						0.00E+00	0.00E+00	4.6	1.28E-06						
Methylene chloride						0.00E+00	0.00E+00	170	4.67E-05						
Molybdenum	13.1	nc	13.1	Maximum		1.31E-05	9.95E-09								
Naphthalene	6.97	nc	6.97	Maximum	6.90E-03										
Nickel	88.5	nc	88.5	Maximum		8.85E-05	6.72E-08								
n-Propylbenzene	0.26	nc	0.26	Maximum	9.80E-03										
o-Xylene	0.173	nc	0.173	Maximum		1.73E-07	1.31E-10								
Pentachlorophenol	4.09	nc	4.09	Maximum		4.09E-06	3.11E-09								
pH	12.5	nc	12.5	Maximum		1.25E-05	9.50E-09								

TABLE III
SUMMARY OF EXPOSURE POINT CONCENTRATIONS (EPCs)
FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA
32486-001

	SOIL CONCENTRATION				VOCs IN AMBIENT AIR CONCENTRATION	PARTICULATES IN AMBIENT AIR (CONSTRUCTION)	PARTICULATES IN AMBIENT AIR (POST DEVELOPMENT)	SOIL GAS AND ESTIMATED INDOOR AIR CONCENTRATION							
Chemical Detected in Soil	Maximum Detected Concentration in Shallow Soil (mg/kg)	Shallow Soil 95% UCL Concentration (mg/kg)	Shallow Soil EPC (mg/kg)	EPC Selection (Maximum or 95% UCL)	EPC of VOCs in Ambient Air (mg/m^3)	Particulates of Non_VOCs in Ambient air during Contruction (mg/m3)	Particulates of Non_VOCs in Ambient Air Post Development (mg/m3)	Soil Gas (5-foot depth) (ug/m^3)	EPC of Soil Gas (5-foot depth) VOCs in Indoor Air (mg/m^3)	Soil Gas (10-foot depth) (ug/m^3)	EPC of Soil Gas (10-foot depth) VOCs in Indoor Air (mg/m^3)	Soil Gas (15-foot depth) (ug/m^3)	EPC of Soil Gas (15-foot depth) VOCs in Indoor Air (mg/m^3)	Soil Gas (20-foot depth) (ug/m^3)	EPC of Soil Gas (20-foot depth) VOCs in Indoor Air (mg/m^3)
Phenanthrene	128	nc	128	Maximum		1.28E-04	9.73E-08								
Phenol	5.16	nc	5.16	Maximum		5.16E-06	3.92E-09								
Pyrene	95.1	nc	95.1	Maximum		9.51E-05	7.23E-08								
sec-Butylbenzene	0.493	nc	0.493	Maximum	2.50E-03										
Styrene								204	4.37E-05			80.8	5.89E-07	98.6	7.12E-07
tert-Butylbenzene	0.0302	nc	0.0302	Maximum	1.30E-04										
Tetrachloroethene	0.266	nc	0.266	Maximum	4.50E-03			20,000	4.33E-03	1000	1.19E-04	41,100	2.79E-04	64,200	4.33E-04
Toluene	0.0924	nc	0.0924	Maximum	9.90E-04			20,800	5.16E-03	3500	4.89E-04	3,640	3.05E-05	2,540	2.11E-05
trans-1,2-Dichloroethene								54	1.15E-05						
Trichloroethene								4,570	1.06E-03	7300	9.42E-04	4,220	3.18E-05	2,100	1.57E-05
Trichlorofluoromethane (CFC-11)								140	3.47E-05	12700	1.78E-03	656	5.31E-06	920	7.39E-06
Trifluorotrichloroethane (Freon 113)								6.2	1.42E-06			8.7	6.31E-08	5.1	3.67E-08
Vanadium	57	nc	57	Maximum		5.70E-05	4.33E-08								
Vinylchloride								470	1.30E-04			201	1.99E-06	443	4.36E-06
Xylenes	0.347	nc	0.347	Maximum	2.40E-03	3.47E-07	2.64E-10	3,890	9.65E-04	4050	5.66E-04	3,270	2.79E-05	1,190	
Zinc	1,060	nc	1,060	Maximum											

nc = not calculated

TABLE IV

SUMMARY OF REPRESENTATIVE GEOPHYSICAL DATA IN UPPER 15 FEET OF SOIL

FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.

ANAHEIM, CALIFORNIA

32486-001

	API RP40	API RP40			API RP40		ASTM D 4318	ASTM D 2487	USDA	
					25 PSI CONFINING PRESSURE PERMEABILITY TO AIR					
SAMPLE ID.	DENSITY BULK (g/cm³)	POROSITY (2), cm³/cm³ TOTAL	AIR FILLED	WATER FILLED	NATIVE (millidarcy)	NATIVE (cm2)	USCS CLASSIFICATION (1) (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol-Name	USDA SOIL TEXTURE SCHEME (2)	Mean Grain Size Description
DP0194A_SS_003_01	1.54	0.423	0.104	0.319	3.52	3.47E-11	CL	CL: Sandy lean clay	Silt loam	Silt
DP0194A_SS_007_01	1.58	0.413	0.062	0.352	0.462	4.56E-12	CL	CL: Lean clay with sand	Silty clay loam	Silt
Average (silt)	1.56	0.418	0.083	0.335	1.99	1.96E-11				
DP0194A_SS_011_01	1.55	0.419	0.255	0.164	400	3.95E-09	NP	SM: Silty Sand	Sandy loam	Fine sand
DP0194A_SS_017_01	1.54	0.421	0.238	0.183	1115	1.10E-08	NP	SM: Silty Sand	Sandy loam	Fine sand
Average (silty sand)	1.55	0.420	0.247	0.173	758	7.48E-09				
DP0194A_SS_022_01	1.34	0.502	0.103	0.399	4.96	4.89E-11	NP	NP: Sandy silt	Silt loam	Silt

Note: Highlighted values used in the J&E model calculations.

TABLE V
RECEPTOR EXPOSURE PARAMETERS
FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA

EXPOSURE ASSUMPTIONS

Receptor: Onsite Commercial/Industrial Worker After Site Redevelopment (Adult)

Complete Pathways:

- Incidental ingestion of soil
- Dermal contact with soil
- Inhalation of fugitive dust (particulates) in ambient air
- Inhalation of vapors in indoor air

Parameter	Reasonable Maximum Exposure (RME)
General Parameters:	
Body Weight (BW)	Value: 70 kg Rationale: Default value; EPA 1997, 2002, 2004a; OEHHA 2005; Cal/EPA 2005; DTSC 1999, 2005
Exposure Frequency (EF)	Value: 250 days/year (50 weeks per year, 5 days per week) Rationale: Default values; DTSC 1999, 2005; EPA 1996a, b; 1997; 2002, 2004a; Cal/EPA 1996, 2005; OEHHA 2005
Exposure Duration (ED)	Value: 25 years Rationale: Default values; DTSC 1999, 2005; EPA 1996a, b; 1997; 2002, 2004a; Cal/EPA 1996, 2005; OEHHA 2005
Averaging Time (AT)	Value: Carcinogenic Effects: 70 years (25,550 days) Noncarcinogenic Effects: AT = Exposure duration Rationale: Default values; DTSC 1999, 2005; EPA 1996a, b; 1997; 2002, 2004a; Cal/EPA 1996, 2005; OEHHA 2005
Inhalation of Particulates/VOCs in Ambient Air:	
Inhalation Rate (IR_{air})	Value: 20 m^3/day Rationale: Default value; EPA 1997, 2002, 2004a; Cal/EPA 1996, 2005; OEHHA 2005
Inhalation of VOCs in Indoor Air:	
Inhalation Rate (IR_{air})	Value: 20 m^3/day Rationale: Default value; EPA 1997, 2002, 2004a; Cal/EPA 1996, 2005; OEHHA 2005
Dermal Contact with Soil:	
Soil Adherence Factor (AF)	Value: 0.2 mg/cm^2-event Rationale: Default values, EPA 1996a, b, 2004a; Cal/EPA 2005; OEHHA 2005; DTSC, 2005
Event Frequency (EV)	Value: 1 event/day Rationale: Default value; DTSC 1999, 2005; Cal/EPA 1996, 2005; OEHHA 2005; EPA 1996a, b, 2004a, b

TABLE V
RECEPTOR EXPOSURE PARAMETERS
FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA

Parameter	Reasonable Maximum Exposure (RME)
Skin Surface Area (SA)	Value: 5,700 cm^2, Rationale: Default values, DTSC, 2005
Dermal Absorption Fraction (ABS_d)	Value: Chemical-specific Rationale: EPA 2004b, DTSC 1999, OEHHA 2005; DTSC 2005
Incidental Soil Ingestion:	
Ingestion Rate (IR_{soil})	Value: 100 mg/day Rationale: Default values, DTSC 1999, 2005; EPA 1996a, b, 2004a; Cal/EPA 2005; OEHHA 2005
Relative Absorption Factor (RAF)	Value: 1.0 Assumed total dose is absorbed.

Receptor: Onsite Construction Worker During Site Redevelopment (Adult)

Complete Pathways:

- Incidental ingestion of soil
- Dermal contact with soil
- Inhalation of fugitive dust (particulates) in ambient air
- Inhalation of vapors in ambient air

Parameter	Reasonable Maximum Exposure (RME)
General Parameters:	
Body Weight (BW)	Value: 70 kg Rationale: Default value; EPA 1997, 2002, 2004a; OEHHA 2005; Cal/EPA 2005; DTSC 1999, 2005
Exposure Frequency (EF)	Value: 250 days/year (50 weeks per year, 5 days per week) Rationale: Default values; DTSC 1999, 2005; EPA 1996a, b; 1997; 2002, 2004a; Cal/EPA 1996, 2005; OEHHA 2005
Exposure Duration (ED)	Value: 1 year Rationale: Professional judgment
Averaging Time (AT)	Value: Carcinogenic Effects: 70 years (25,550 days) Noncarcinogenic Effects: AT = Exposure duration Rationale: Default values; DTSC 1999, 2005; EPA 1996a, b; 1997; 2002, 2004a; Cal/EPA 1996, 2005; OEHHA 2005
Inhalation of Particulates/Vapors in Ambient Air:	
Inhalation Rate (IR_{air})	Value: 20 m^3/day Rationale: Default value; EPA 1997, 2002, 2004a; Cal/EPA 1996, 2005; OEHHA 2005

TABLE V
RECEPTOR EXPOSURE PARAMETERS
FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA

Parameter	Reasonable Maximum Exposure (RME)
Dermal Contact with Soil:	
Soil Adherence Factor (AF)	Value: 0.8 mg/cm^3 Rationale: Default value, DTSC 2005
Event Frequency (EV)	Value: 1 event/day Rationale: Default value, EPA 2002, 2004b
Skin Surface Area (SA)	Value: 5,700 cm^2 Rationale: Default value, DTSC, 2005
Dermal Absorption Fraction (ABS_d)	Value: Chemical-specific Rationale: EPA 2004b, DTSC 1999, OEHHA 2005; DTSC 2005
Incidental Soil Ingestion:	
Ingestion Rate (IR_{soil})	Value: 330 mg/day Rationale: Default value; EPA 2002; Based on 95th percentile value for adult soil intake rates and recommended screening-level value for construction workers
Relative Absorption Factor (RAF)	Value: 1.0 Rationale: Assumed total dose is absorbed

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TABLE VI
SUMMARY OF TOXICITY VALUES
FORMER DELPHI BATTERY COMPANY, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA
32486-001

CAS No	Chemical Name	CLASS	CA Chronic RfDi (inh)	Ref.	CA Chronic RfDo (oral)	Ref.	CA Chronic RfDo (dermal)	Ref.	CA SFi (inh)	Ref.	CA SFo (oral)	Ref.	CA SFo (dermal)	Ref.
71-55-6	1,1,1-Trichloroethane (1,1,1-TCA, methylchloroform)	VOC	2.86E-01	b,c,d	2.86E-01	a	2.8E-01	a	na	a,b	na	a,b	na	a,b
79-00-5	1,1,2-TCA	VOC	4.0E-03	a	4.0E-03	a	4.0E-03	a	5.7E-02	b,c	7.2E-02	b	7.2E-02	b
76-13-1	1,1,2-Trichlorotrifluoroethane	VOC	2.0E-01	c	3.0E+01	a	3.0E+01	a	na	a,b	na	a,b	na	a,b
75-34-3	1,1-Dichloroethane (1,1-DCA)	VOC	1.4E-01	a	1.0E-01	a	1.0E-01	a	5.7E-03	a,b,c	5.7E-03	a,b	5.7E-03	a,b
75-35-4	1,1-Dichloroethylene (1,1-DCE)	VOC	2.0E-02	c,d	5.0E-02	a	5.0E-02	a	na	a	na	a	na	a
563-58-6	1,1-Dichloropropene (surrogate=1,3-dichloropropene	VOC	5.7E-03	a	3.0E-02	a	3.0E-02	a	5.50E-02	b	9.10E-02	b	9.10E-02	b
87-61-6	1,2,3-Trichlorobenzene (sur=1,2,4-Trichlorobenzene)	VOC	1.0E-03	a	1.0E-02	a	1.0E-02	a	na	a,b	3.6E-03	b	na	a,b
120-82-1	1,2,4-Trichlorobenzene	VOC	1.0E-03	a	1.0E-02	a	1.0E-02	a	na	a,b	3.6E-03	b	na	a,b
95-63-6	1,2,4-Trimethylbenzene	VOC	1.7E-03	a	5.0E-02	a	5.0E-02	a	na	a,b	na	b	na	b
107-06-2	1,2-Dichloroethane (EDC)	VOC	1.14E-01	c,d	2.0E-02	a	2.0E-02	a	7.2E-02	b	4.7E-02	b	4.7E-02	b
78-87-5	1,2-Dichloropropane	VOC	1.1E-03	a	1.1E-03	a	1.1E-03	a	3.6E-02	b	3.6E-02	b	3.6E-02	b
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114, sur=Freon 113)	VOC	2.0E-01	c	3.0E+01	a	3.0E+01	a	na	a,b	na	a,b	na	a,b
78-87-5	2,2-Dichloropropane (surrogate=1,2-dichloropropane)	VOC	1.1E-03	a	1.1E-03	a	1.1E-03	a	3.6E-02	b	3.6E-02	b	3.6E-02	b
105-67-9	2,4-Dimethylphenol	SVOC	2.0E-02	a	2.00E-02	a	2.00E-02	a	na	a,b	na	a,b	na	a,b
78-93-3	2-Butanone	VOC	2.86E-01	a,c	6.0E-01	a	6.0E-01	a	na	a,b	na	a,b	na	a,b
591-78-6	2-Hexanone (as MIBK)	VOC	8.6E-01	a	8.0E-02	a	8.0E-02	a	na	a,b	na	a,b	na	a,b
91-57-6	2-Methylnaphthalene (as Pyrene)	PAH	3.0E-02	a	3.0E-02	a	3.0E-02	a	na	a,b	na	a,b	na	a,b
95-48-7	2-Methylphenol	SVOC	5.0E-02	a	5.00E-02	a	5.00E-02	a	na	a,b	na	a,b	na	a,b
106-44-5	4-Methylphenol	SVOC	5.0E-03	a	5.00E-03	a	5.00E-03	a	na	a,b	na	a,b	na	a,b
622-96-8	4-Ethyltoluene (as xylenes)	VOC	2.00E-01	c,d	2.0E-01	a	2.0E-01	a	na	a,b	na	a,b	na	a,b
108-10-1	4-Methyl-2-pentanone (MIBK)	VOC	8.6E-01	a	8.0E-02	a	8.0E-02	a	na	a,b	na	a,b	na	a,b
83-32-9	Acenaphthene	PAH	6.0E-02	a	6.0E-02	a	6.0E-02	a	na	a,b	na	a,b	na	a,b
208-96-8	Acenaphthylene (surrogate=pyrene)	PAH	3.0E-02	a	3.0E-02	a	3.0E-02	a	na	a,b	na	a,b	na	a,b
67-64-1	Acetone	VOC	9.0E-01	a	9.0E-01	a	9.0E-01	a	na	a,b	na	a,b	na	a,b
120-12-7	Anthracene	PAH	3.0E-01	a	3.0E-01	a	3.0E-01	a	na	a,b	na	a,b	na	a,b
7440-36-0	Antimony	MET	5.71E-05	c	4.0E-04	a	4.0E-04	a	na	a,b	na	a,b	na	a,b
53469-21-9	Aroclor 1016	PCB	3.4E-04	c	2.0E-05	c	2.0E-05	c	7.0E-02	*	7.0E-02	*	7.00E-02	*
12672-29-6	Aroclor 1248	PCB	3.4E-04	c	2.0E-05	c	2.0E-05	c	7.0E-02	*	7.0E-02	*	7.00E-02	*
11097-69-1	Aroclor 1254	PCB	3.4E-04	c	2.0E-05	c	2.0E-05	c	2.0E+00	a,b	5.0E+00	b	5.00E+00	b
11096-82-5	Aroclor 1260	PCB	3.4E-04	c	2.0E-05	c	2.0E-05	c	2.0E+00	a,b	5.0E+00	b	5.00E+00	b
7440-38-2	Arsenic	MET	8.57E-06	d	3.0E-04	a,c	3.0E-04	a,c	1.2E+01	b,c	9.5E+00	b,c	9.5E+00	b

TABLE VI
SUMMARY OF TOXICITY VALUES
FORMER DELPHI BATTERY COMPANY, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA
32486-001

CAS No	Chemical Name	CLASS	CA Chronic RfDi (inh)	Ref.	CA Chronic RfDo (oral)	Ref.	CA Chronic RfDo (dermal)	Ref.	CA SFi (inh)	Ref.	CA SFo (oral)	Ref.	CA SFo (dermal)	Ref.
71-43-2	Benzene	VOC	1.71E-02	b,c,d	4.0E-03	a	4.0E-03	a	1.0E-01	b,c	1.0E-01	b	1.0E-01	b
56-55-3	Benzo(a)anthracene	PAH	na	a,b,c	na	a,b,c	na	a,b,c	3.9E-01	b,c	1.2E+00	b,c	1.2E+00	b
50-32-8	Benzo(a)pyrene	PAH	na	a,b,c	na	a,b,c	na	a,b,c	3.9E+00	b,c	1.2E+01	b,c	1.2E+01	b
205-99-2	Benzo(b)fluoranthene	PAH	na	a,b,c	na	a,b,c	na	a,b,c	3.9E-01	b,c	1.2E+00	b,c	1.2E+00	b
191-24-2	Benzo(g,h,i)perylene (as Pyrene)	PAH	3.0E-02	a	3.0E-02	a	3.0E-02	a	na	a,b	na	a,b	na	a,b
207-08-9	Benzo(k)fluoranthene	PAH	na	a,b,c	na	a,b,c	na	a,b,c	3.9E-01	b,c	1.2E+00	b,c	1.2E+00	b
65-85-0	Benzoic acid	SVOC	4.0E+00	a	4.0E+00	a	4.0E+00	a	na	a,b	na	a,b	na	a,b
117-81-7	Bis(2-ethylhexyl)phthalate	SVOC	2.0E-02	c	2.0E-02	a	2.0E-02	a	8.4E-03	b,c	3.0E-03	b,c	3.0E-03	b
75-27-4	Bromodichloromethane	VOC	2.0E-02	a	2.0E-02	a	2.0E-02	a	1.3E-01	b	1.3E-01	b	1.3E-01	b
7440-43-9	Cadmium	MET	5.71E-06	c,d	5.0E-04	c	5.0E-04	c	1.5E+01	b,c	3.8E-01	b	3.8E-01	b
75-15-0	Carbon disulfide	VOC	2.29E-01	c,d	1.0E-01	a	1.0E-01	a	na	a,b	na	a,b	na	a,b
56-23-5	Carbon tetrachloride	VOC	1.14E-02	b,c,d	7.0E-04	a	7.0E-04	a	1.5E-01	b,c	1.5E-01	b	1.5E-01	b
108-90-7	Chlorobenzene	VOC	2.86E-01	b,c,d	2.0E-02	c	2.0E-02	c	na	a,b	na	a,b	na	a,b
75-00-3	Chloroethane (ethylchloride)	VOC	8.57E+00	b,c,d	4.0E-01	a	4.0E-01	a	2.9E-03	a	2.9E-03	a	2.9E-03	a
67-66-3	Chloroform	VOC	8.57E-02	b,c,d	1.0E-02	a	1.0E-02	a	1.9E-02	a,b,c	3.1E-02	a,b	3.1E-02	a,b
74-87-3	Chloromethane	VOC	2.6E-02	a	2.60E-02	a	2.60E-02	a	na	a	na	a	na	a
18540-29-9	Chromium (hexavalent)	MET	5.71E-05	d	2.0E-02	c	2.0E-02	c	5.1E+02	b,c	na	b	na	b
16065-83-1	Chromium (trivalent)	MET	na	a,b,c	1.5E+00	a	1.5E+00	a	na	a,b	na	a,b	na	a,b
218-01-9	Chrysene	PAH	na	a,b,c	na	a,b,c	na	a,b,c	3.9E-02	b,c	1.2E-01	a,b,c	1.2E-01	b
99-87-6	Cymene (sum=isopropylbenzene)	VOC	1.1E-01	a	1.0E-01	a	1.0E-01	a	na	a,b	na	a,b	na	a,b
132-64-9	Dibenzofuran	SVOC	2.0E-03	d	2.0E-03	a	2.0E-03	a	na	a,b	na	a,b	na	a,b
124-48-1	Dibromochloromethane	VOC	2.0E-02	a	2.0E-02	a	2.0E-02	a	9.4E-02	b	9.4E-02	b	9.4E-02	b
74-95-3	Dibromomethane	VOC	1.0E-02	a	1.0E-02	a	1.0E-02	a	na	a,b,c	na	a,b,c	na	a,b,c
75-71-8	Dichlorodifluoromethane	VOC	5.7E-02	a	2.0E-01	a	2.0E-01	a	na	a,b	na	a,b	na	a,b
84-74-2	Di-n-butylphthalate	SVOC	1.0E-01	a	1.0E-01	a	1.0E-01	a	na	a,b	na	a,b	na	a,b
117-84-0	Di-n-octylphthalate	SVOC	4.0E-02	a	4.0E-02	a	4.0E-02	a	na	a,b	na	a,b	na	a,b
100-41-4	Ethylbenzene	VOC	5.71E-01	c,d	1.0E-01	a	1.0E-01	a	na	a,b,c	na	a,b,c	na	a,b,c
206-44-0	Fluoranthene	PAH	4.0E-02	a	4.0E-02	a	4.0E-02	a	na	a,b	na	a,b	na	a,b
86-73-7	Fluorene	PAH	4.0E-02	a	4.0E-02	a	4.0E-02	a	na	a,b	na	a,b	na	a,b
193-39-5	Indeno(1,2,3-cd)pyrene	PAH	na	a,b,c	na	a,b,c	na	a,b,c	3.9E-01	b,c	1.2E+00	b,c	1.2E+00	b
98-82-8	Isopropyl-benzene (cumene, 1-methylethylbenzene)	VOC	1.1E-01	a	1.0E-01	a	1.0E-01	a	na	a,b	na	a,b	na	a,b
7439-92-1	Lead	MET	na	a,b,c	na	a,b,c	na	a,b,c	4.20E-02	b	8.50E-03	b	8.50E-03	b
1634-04-4	MTBE	VOC	2.29E+00	c,d	8.6E-01	a	8.6E-01	a	9.1E-04	b	1.8E-03	b	1.8E-03	b
91-20-3	Naphthalene	PAH	2.57E-03	b,c,d	2.0E-02	a	2.0E-02	a	1.2E-01	a,b	1.2E-01	a,b	1.2E-01	a,b
103-65-1	n-Propylbenzene	VOC	4.0E-02	a	4.0E-02	a	4E-02	a	na	a,b	na	a,b	na	a,b
87-86-5	Pentachlorophenol	SVOC	5.71E-05	c	3.0E-02	a	3.0E-02	a	1.8E-02	b	8.1E-02	b	8.1E-02	b
85-01-8	Phenanthrene (surrogate=pyrene)	PAH	3.0E-02	a	3.0E-02	a	3.0E-02	a	na	a,b	na	a,b	na	a,b
108-95-2	Phenol	SVOC	5.7E-02	b,c,d	3.0E-01	a	3.0E-01	a	na	a,b	na	a,b	na	a,b

TABLE VI
SUMMARY OF TOXICITY VALUES
FORMER DELPHI BATTERY COMPANY, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA
32486-001

CAS No	Chemical Name	CLASS	CA Chronic RfDi (inh)	Ref.	CA Chronic RfDo (oral)	Ref.	CA Chronic RfDo (dermal)	Ref.	CA SFi (inh)	Ref.	CA SFo (oral)	Ref.	CA SFo (dermal)	Ref.
129-00-0	Pyrene	PAH	3.0E-02	a	3.0E-02	a	3.0E-02	a	na	a,b	na	a,b	na	a,b
135-98-8	sec-Butylbenzene	VOC	4.0E-02	a	4.0E-02	a	4.0E-02	a	na	a,b	na	a,b	na	a,b
100-42-5	Styrene	VOC	2.57E-01	b,c,d	2.0E-01	a	2.0E-01	a	na	a,b	na	a,b	na	a,b
98-06-6	tert-butylbenzene	VOC	4.0E-02	b	4.0E-02	a	4.0E-02	a	na	a,b	na	a,b	na	a,b
127-18-4	Tetrachloroethylene (PCE)	VOC	1.0E-02	c,d	1.0E-02	a	1.0E-02	a	2.1E-02		5.4E-01	b	5.4E-01	b
108-88-3	Toluene	VOC	8.57E-02	b,c,d	2.0E-01	a	2.0E-01	a	na	a,b	na	a,b	na	a,b
156-60-5	trans-1,2-Dichloroethylene (trans-1,2-DCE)	VOC	2.0E-02	a	2.0E-02	a	2.0E-02	a	na	a,b	na	a,b	na	a,b
79-01-6	Trichloroethylene (TCE)	VOC	1.7E-01	b	3.0E-04	a	3.0E-04	a	7.0E-03	b	1.3E-02	b	1.3E-02	b
75-69-4	Trichlorofluoromethane (Freon 11)	VOC	2.0E-01	a,c	3.0E-01	a	3.0E-01	a	na	a,b	na	a,b	na	a,b
75-01-4	Vinylchloride	VOC	7.43E-03	c	3.0E-03	a	3.0E-03	a	2.7E-01	b,c	2.7E-01	b	2.7E-01	b
1330-20-7	Xylenes	VOC	2.00E-01	c,d	2.0E-01	a	2.0E-01	a	na	a,b	na	a,b	na	a,b
7440-66-6	Zinc	MET	1.0E-02	c	3.0E-01	a	3.0E-01	a	na	a,b	na	a,b	na	a,b

References:

a EPA Region 9, Preliminary Remediation Goals (PRGs), October 2004.
b Cal-EPA Office of Environmental Health Hazard Assessment (OEHHA), Toxicity Criteria Database and 10 August 2005 California Cancer Potency Values, http://www.oehha.ca.gov/risk/chemicalDB/index.asp
c Cal-EPA, Air Resources Board (ARB), Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, 25 April 2005, http://www.arb.ca.gov/toxics/healthval/healthval.htm
d Cal-EPA Office of Environmental Health Hazard Assessment (OEHHA), Chronic Reference Exposure Levels (RELs) for Airborne Toxicants, February 2005, http://www.oehha.org/air/chronic_rels/AllChrels.html

* PCBs - The low and high risk Aroclor slope factors are not listed on the OEHHA Database and are from the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values

TABLE VII
SUMMARY OF RISK ASSESSMENT RESULTS
FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA
32486-001

RECEPTOR	PATHWAY	ILCR	HI
Construction Worker	Soil Ingestion and Dermal Contact	7E-04	448
	Inhalation of Particulates (non-volatiles)	2E-05	4.2
	Inhalation of Volatiles (in Ambient Air)	3E-06	2.3
	Total	7E-04	255
Commercial/Industrial Worker	Soil Ingestion and Dermal Contact	5E-03	120
	Inhalation of Particulates (non-volatiles)	3E-07	0.0032
	Inhalation of Volatiles in Indoor Air (5-foot soil gas sampling depth)	2E-05	1.8
	Total	5E-03	122
Inside Building - various depths	Inhalation of Volatiles in Indoor Air (10-foot soil gas sampling depth)	2E-06	0.091
	Inhalation of Volatiles in Indoor Air (15-foot soil gas sampling depth)	3E-06	0.21
	Inhalation of Volatiles in Indoor Air (20-foot soil gas sampling depth)	2E-06	0.11

ILCR = Incremental Lifetime Cancer Risk
HI = Hazard Index

TABLE VII
DELPHI ANAHEIM
PROPOSED REMEDIATION CRITERIA FOR COMMERCIAL/INDUSTRIAL SCENARIO
FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA

Chemical	Target Exposure Point Concentration (EPC) for Setting Remediation Criteria	Cumulative Risk-Based Remediation Criteria (based on maximum residual concentration)	Cumulative Risk-Based Remediation Criteria (based on maximum residual soil concentration in 95% UCL data set)	Maximum Site-specific Metals Background Concentration	Maximum Residual Concentration after Proposed Remediation
Soil (mg/kg) upper 10 feet bgs					
Antimony	7.5		54.5	1.6	26.9
Arsenic	5.6		9.05 *	5.6	9.05
Chromium (VI)	1	1			<0.2
PCBs (total)	0.7		3.82		3.82
Benzo(a)anthracene	0.125	0.125			<0.250 (0.125)
Benzo(a)pyrene	0.125	0.125			<0.250 (0.125)
Benzo(b)fluoranthene	0.125	0.125			<0.250 (0.125)
Benzo(k)fluoranthene	0.125	0.125			<0.250 (0.125)
Chrysene	0.125	0.125			<0.250 (0.125)
Indeno(1,2,3-cd)pyrene	0.125	0.125			<0.250 (0.125)
Lead	800 **	800 **			785
1,2,4-Trimethylbenzene	0.062	0.062			0.0132
1,3,5-Trimethylbenzene	0.034	0.034			0.0054
Naphthalene	0.174	0.174			0.0089
Soil Gas (µg/m3) - Depths less than 15 feet bgs					
1,1-Dichloroethane	13600	13600			13600
1,1-Dichloroethene	260000	260000			260000
1,2-Dichloropropane	2450	2450			2450
Tetrachloroethene	5000	5000			5000
Vinylchloride	235	235			235

Notes:

* Cumulative risk-based arsenic remediation criterion lowered from 21.9 mg/kg to 9.05 mg/kg, based on recommendations made after evaluation of potential "hot spots" at the Site.

* For lead, an initial remediation criterion of 6,650 mg/kg was derived based on the post-remediation calculated 95% UCL concentration. However, Delphi has decided to set the remediation criteria to 800 mg/kg as the remediation criterion for lead at the Site to be consistent with the EPA Region IX industrial soil preliminary remediation goal (PRG).

<0.250 (0.125) = concentration remediated to below the detection limit of 0.250 mg/kg, and half the detection limit (0.125) used in the cummulative risk calculation.

TABLE IX
CUMULATIVE RISK-BASED REMEDIATION CRITERIA FOR SOIL AND SOIL GAS
FORMER DELPHI BATTERY PLANT, 1201 MAGNOLIA AVE.
ANAHEIM, CALIFORNIA
32486-009

Chemical	Remediation Criteria
Soil (mg/kg) upper 10 feet bgs	
Antimony	54.5
Arsenic	9.05 *
Chromium (VI)	1
PCBs (total)	3.82
Benzo(a)anthracene	0.125 (<0.250)
Benzo(a)pyrene	0.125 (<0.250)
Benzo(b)fluoranthene	0.125 (<0.250)
Benzo(k)fluoranthene	0.125 (<0.250)
Chrysene	0.125 (<0.250)
Indeno(1,2,3-cd)pyrene	0.125 (<0.250)
Lead	800 **
1,2,4-Trimethylbenzene	0.062
1,3,5-Trimethylbenzene	0.034
Naphthalene	0.174
Soil Gas (µg/m3) - Depths less than 15 feet bgs	
1,1-Dichloroethane	13,600
1,1-Dichloroethene	260,000
1,2-Dichloropropane	2,450
Tetrachloroethene	5,000
Vinylchloride	235

Notes:

* Cumulative risk-based arsenic remediation criterion lowered from 21.9 mg/kg to 9.05 mg/kg, based on recommendations made after evaluation of potential "hot spots" at the Site.

* For lead, an initial remediation criterion of 6,650 mg/kg was derived based on the post-remediation calculated 95% UCL concentration. However, Delphi has decided to set the remediation criteria to 800 mg/kg as the remediation criterion for lead at the Site to be consistent with the EPA Region IX industrial soil preliminary remediation goal (PRG).

0.125 (<0.250) = concentration remediated to below the detection limit of 0.250 mg/kg.